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[57] **ABSTRACT**

- A time domain communications system wherein a broadband of time-spaced signals, essentially monocy-
cle-like signals, are derived from applying stepped-in-
amplitude signals to a broadband antenna, in this case, a
reverse bicone antenna. When received, the thus trans-
mitted signals are multiplied by a D.C. replica of each
transmitted signal, and thereafter, they are, succes-
sively, short time and long time integrated to achieve
detection.

34 Claims, 8 Drawing Sheets

